JAK3 (6B5) Mouse mAb

CatalogNo: YM33098

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat

Applications
- IHC

MW
- 125kD (Observed)

Recommended Dilution Ratios

IHC 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal
Clone Number	6B5

Immunogen Information

Immunogen	Synthesized peptide derived from human JAK3
Specificity	This antibody detects endogenous levels of JAK3 at Human, Mouse,Rat

Target Information

Gene name	JAK3

Protein Name JAK3

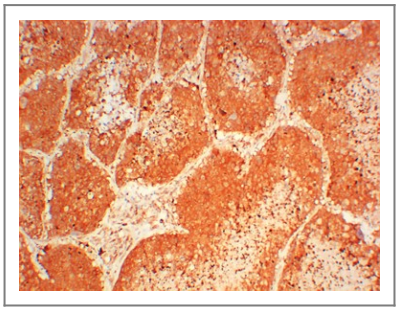
Organism	Gene ID	UniProt ID
Human	3718;	P52333;
Mouse	16453;	Q62137;
Rat		Q63272;

Cellular Localization Endomembrane system ; Peripheral membrane protein . Cytoplasm .

Tissue specificity In NK cells and an NK-like cell line but not in resting T-cells or in other tissues. The S-form is more commonly seen in hematopoietic lines, whereas the B-form is detected in cells both of hematopoietic and epithelial origins.

Function Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Disease:Defects in JAK3 are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-negative (T(-)B(+)NK(-)SCID) [MIM:600802]. SCID refers to a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.,Domain:Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1.,Function:Tyrosine kinase of the non-receptor type, involved in the interleukin-2 and interleukin-4 signaling pathway. Phosphorylates STAT6, IRS1, IRS2 and PI3K.,online information:JAK3 mutation db,PTM:Tyrosine phosphorylated in response to IL-2 and IL-4.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,subcellular location:Wholly intracellular, possibly membrane associated.,subunit:Interacts with STAM2 and MYO18A (By similarity). Interacts with SHB.,tissue specificity:In NK cells and an NK-like cell line but not in resting T-cells or in other tissues. The S-form is more commonly seen in hematopoietic lines, whereas the B- and M-forms are detected in cells both of hematopoietic and epithelial origins.,

Validation Data



Immunohistochemical analysis of paraffin-embedded Human Lung CarcinomaTissue using JAK3 Mouse Monoclonal antibody diluted at 1:200.

Contact information

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Please scan the QR code to access additional product information:
JAK3 (6B5) Mouse mAb